



***George Washington Memorial Parkway  
Roadway and Trail Safety Improvements  
ENVIRONMENTAL ASSESSMENT***

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**APPENDIX A:  
ALTERNATIVES PLANS AND ELEVATIONS**



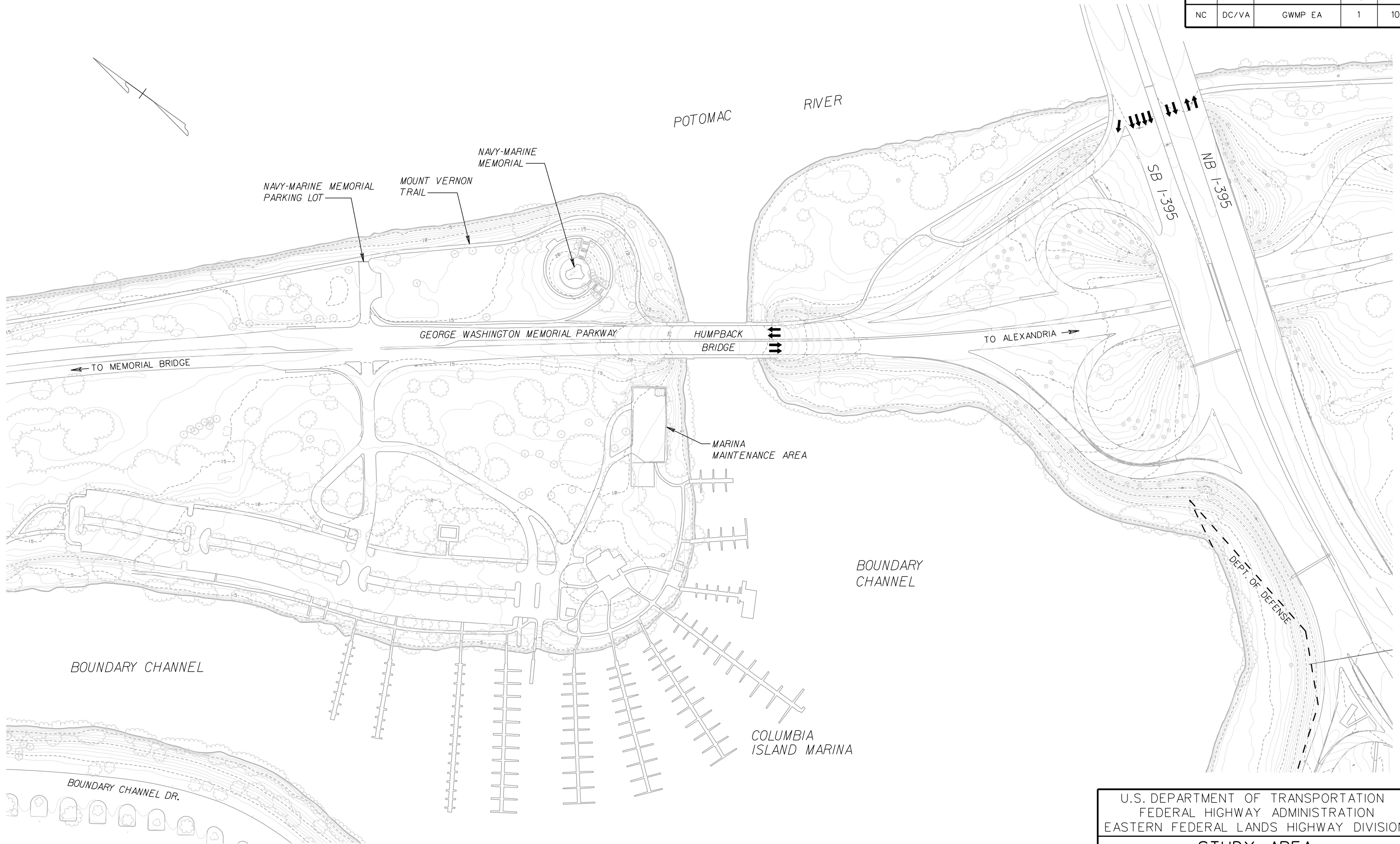
***George Washington Memorial Parkway  
Roadway and Trail Safety Improvements  
ENVIRONMENTAL ASSESSMENT***

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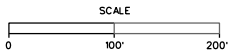
**DRAWING LIST**

Sheet No.	Name
1	Study Area Existing Conditions Plan
2	Roadway Plan 1 - Marina Preferred Alternative
3	Roadway Plan 2 - Bridge Alternative A
4	Roadway Plan 3 - Bridge Alternative B
5	Roadway Plan 4 - Bridge Preferred Alternative
6	Profile 1 - Bridge Preferred Alternative
7	Plan & Elevation 1 - Marina Preferred Alternative
8	Plan & Elevation 2 - Bridge Alternative A
9	Plan & Elevation 3 - Bridge Alternative B
10	Plan & Elevation 4 - Bridge Preferred Alternative

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	1	10



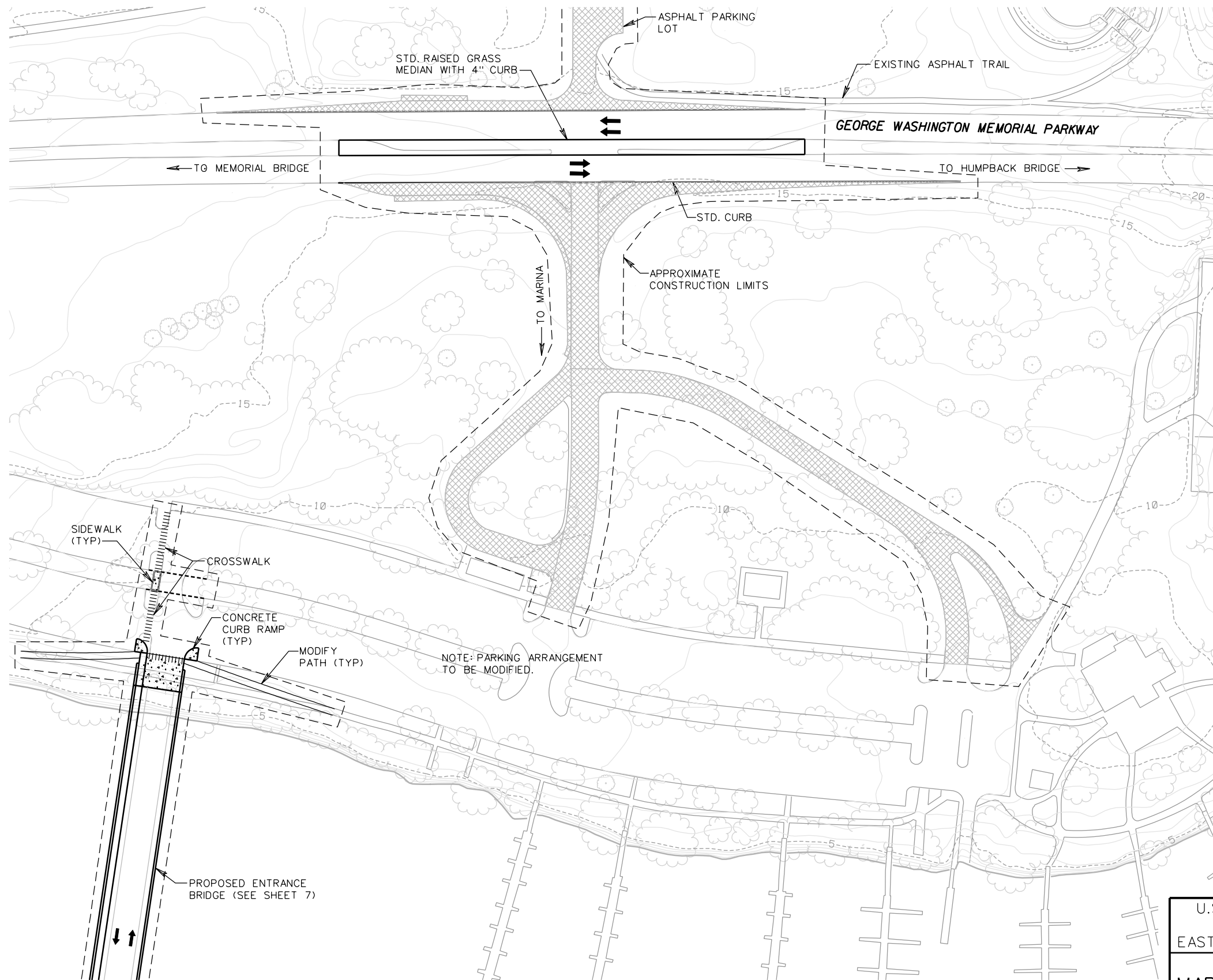
**EXISTING CONDITIONS PLAN**  
SCALE: 1"=200'



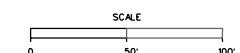
U.S. DEPARTMENT OF TRANSPORTATION  
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EASTERN FEDERAL LANDS HIGHWAY DIVISION

**STUDY AREA**  
**EXISTING CONDITIONS PLAN**  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	2	10



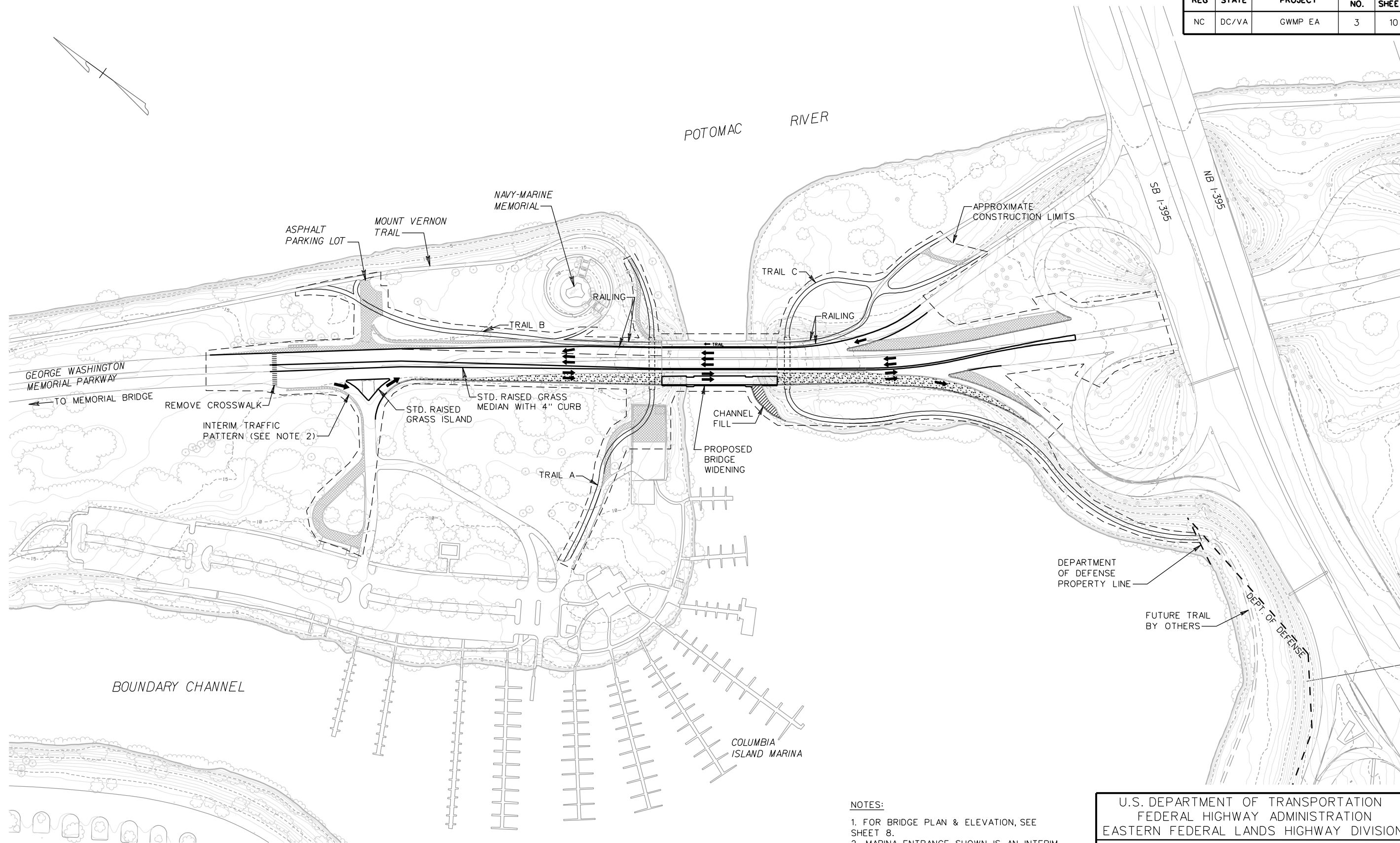
- LEGEND:**
- PAVEMENT TO BE DEMOLISHED, AREA TO BE REGRADED AND REPLANTED
  - ROADWAY PAVEMENT TO BE ADDED



**ROADWAY PLAN**  
PREFERRED ALTERNATIVE  
SCALE: 1"=100'

U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION EASTERN FEDERAL LANDS HIGHWAY DIVISION	
<b>ROADWAY PLAN 1 -</b> <b>MARINA PREFERRED ALTERNATIVE</b> GEORGE WASHINGTON MEMORIAL PARKWAY SAFETY IMPROVEMENTS EA	
DATE: MARCH 2002	SHT <u>2</u> OF <u>10</u>

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	3	10



LEGEND:



PAVEMENT TO BE DEMOLISHED,  
AREA TO BE REGRADED AND  
REPLANTED



ROADWAY PAVEMENT TO BE ADDED



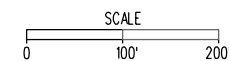
FILL TO BE ADDED

ROADWAY PLAN

ALTERNATIVE A  
SCALE: 1"=200'

NOTES:

1. FOR BRIDGE PLAN & ELEVATION, SEE SHEET 8.
2. MARINA ENTRANCE SHOWN IS AN INTERIM MEASURE UNTIL CONNECTION FROM BOUNDARY CHANNEL DRIVE IS MADE.



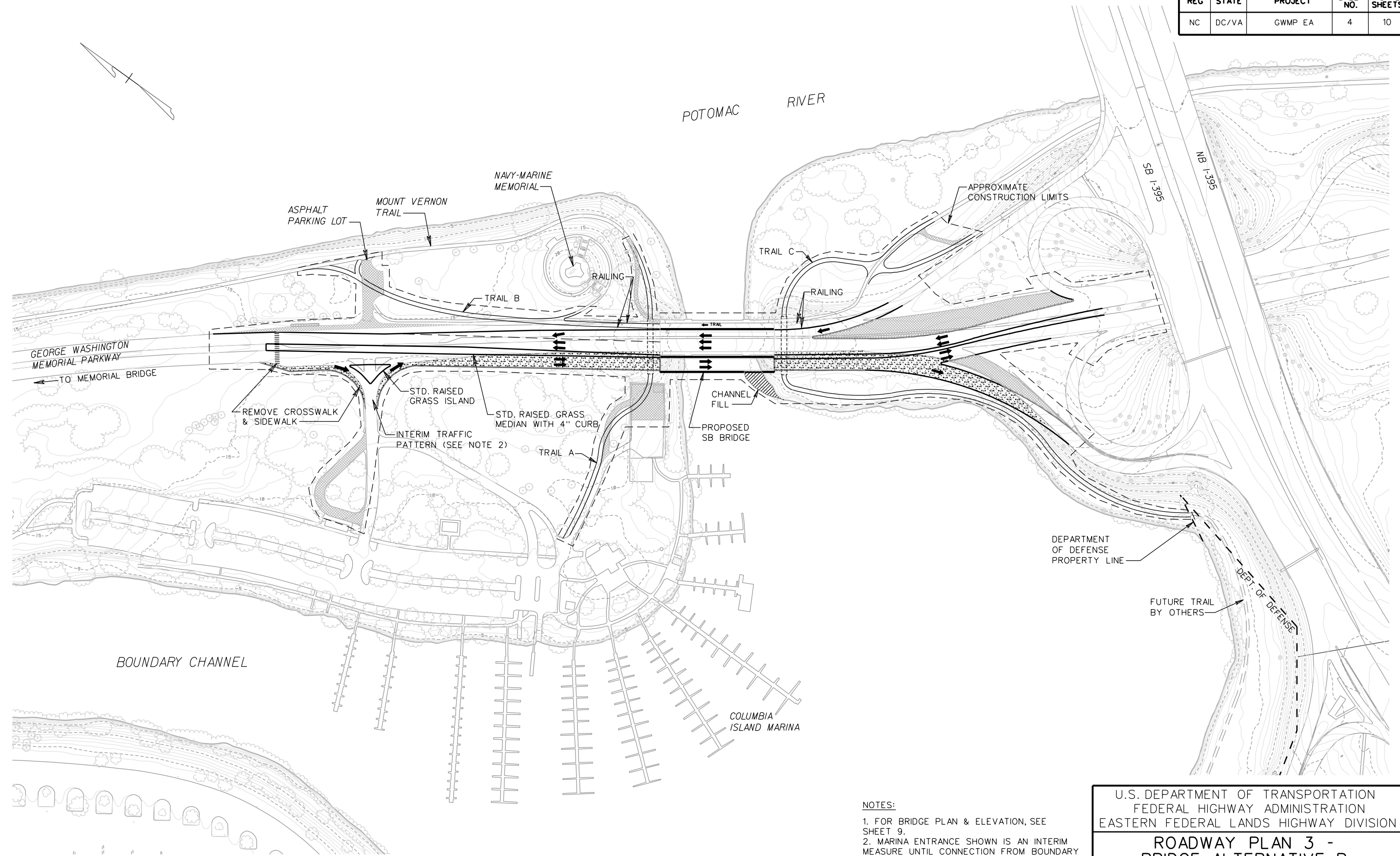
U.S. DEPARTMENT OF TRANSPORTATION  
FEDERAL HIGHWAY ADMINISTRATION  
EASTERN FEDERAL LANDS HIGHWAY DIVISION

**ROADWAY PLAN 2 -  
BRIDGE ALTERNATIVE A**  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

DATE: MARCH 2002

SHT 3 OF 10

REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	4	10



**LEGEND:**  
PAVEMENT TO BE DEMOLISHED, AREA TO BE REGRADED AND REPLANTED

ROADWAY PAVEMENT TO BE ADDED

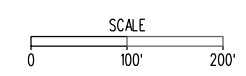
FILL TO BE ADDED

ROADWAY PLAN

ALTERNATIVE B

SCALE: 1"=200'

- NOTES:**
- FOR BRIDGE PLAN & ELEVATION, SEE SHEET 9.
  - MARINA ENTRANCE SHOWN IS AN INTERIM MEASURE UNTIL CONNECTION FROM BOUNDARY CHANNEL DRIVE IS MADE.



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ROADWAY PLAN 3 -

BRIDGE ALTERNATIVE B

GEORGE WASHINGTON MEMORIAL PARKWAY

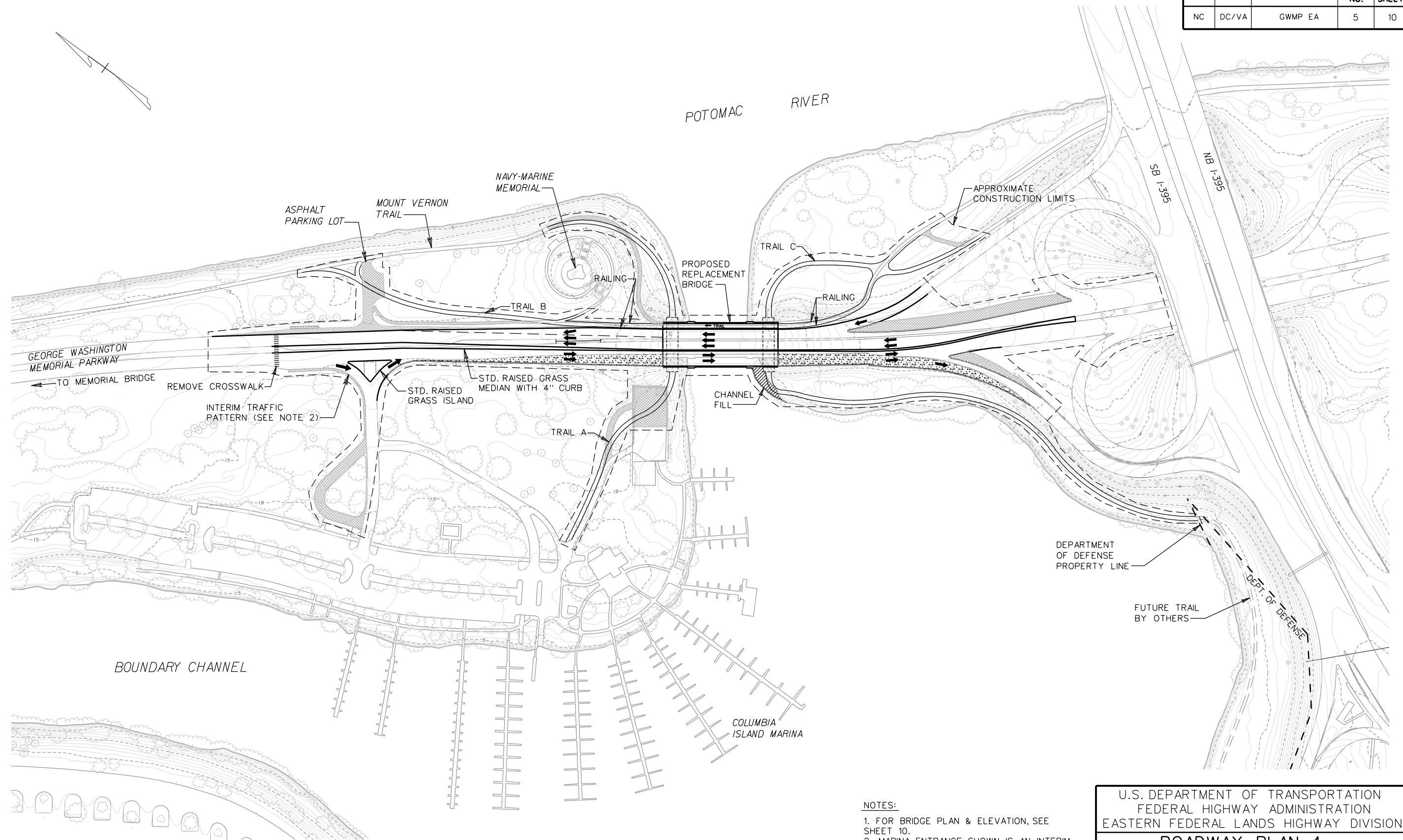
SAFETY IMPROVEMENTS EA

DATE: MARCH 2002

SHT 4 OF 10



REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	5	10



#### LEGEND:



PAVEMENT TO BE DEMOLISHED,  
AREA TO BE REGRADED AND  
REPLANTED



ROADWAY PAVEMENT TO BE ADDED



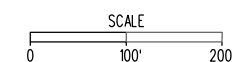
FILL TO BE ADDED

#### ROADWAY PLAN

PREFERRED ALTERNATIVE  
SCALE: 1"=200'

#### NOTES:

1. FOR BRIDGE PLAN & ELEVATION, SEE SHEET 10.
2. MARINA ENTRANCE SHOWN IS AN INTERIM MEASURE UNTIL CONNECTION FROM BOUNDARY CHANNEL DRIVE IS MADE.



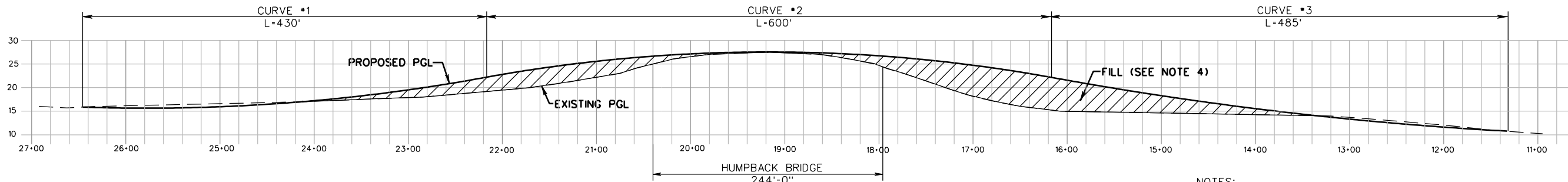
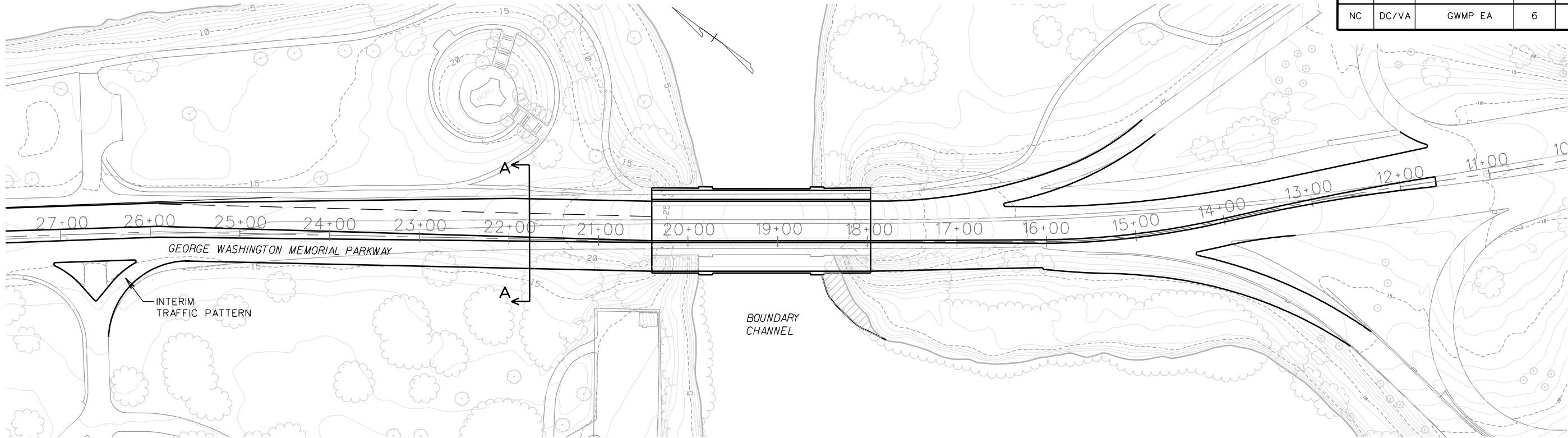
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EASTERN FEDERAL LANDS HIGHWAY DIVISION

**ROADWAY PLAN 4 -  
BRIDGE PREFERRED ALTERNATIVE**  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

DATE: MARCH 2002

SHT 5 OF 10

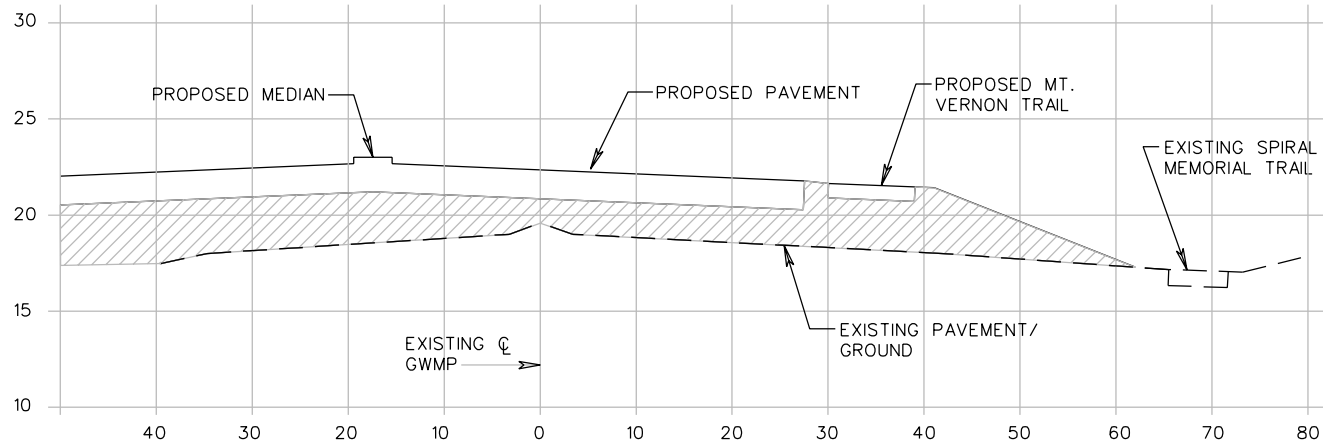
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	6	10



CURVE	K*	DESIGN SPEED
1	96	50 MPH
2	84	50 MPH
3	96	50 MPH

NOTES:

1. K DESIGN VALUES ARE BASED ON AASHTO "A POLICY ON THE DESIGN OF HIGHWAYS AND STREETS", 2001 (FOURTH ED.), EXHIBITS 3-76 AND 3-79.
2. PROPOSED PROFILE PROVIDES ADEQUATE SIGHT DISTANCE FOR A DESIGN SPEED OF 50 MPH.
3. PROFILE GRADE LINE (PGL) IS LOCATED AT THE EXISTING CENTERLINE OF THE BRIDGE.
4. ALL FILL TO BE PLACED ON TOP OF THE EXISTING BRIDGE MUST NOT ADD TO THE EXISTING TOTAL DEAD LOAD ON THE BRIDGE (REPLACEMENT OF EXISTING BRIDGE MATERIALS WITH LIGHTWEIGHT FILL MATERIALS MAY BE REQUIRED).



LEGEND:

FILL TO BE ADDED

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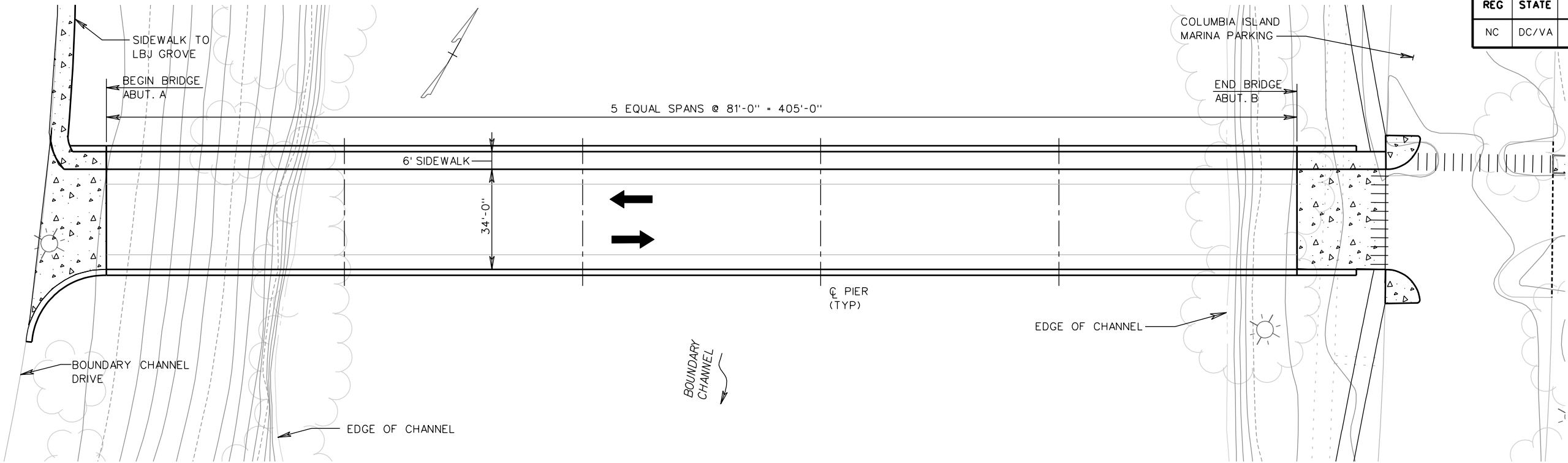
PROFILE 1 -  
BRIDGE PREFERRED ALTERNATIVE  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

DATE: MARCH 2002

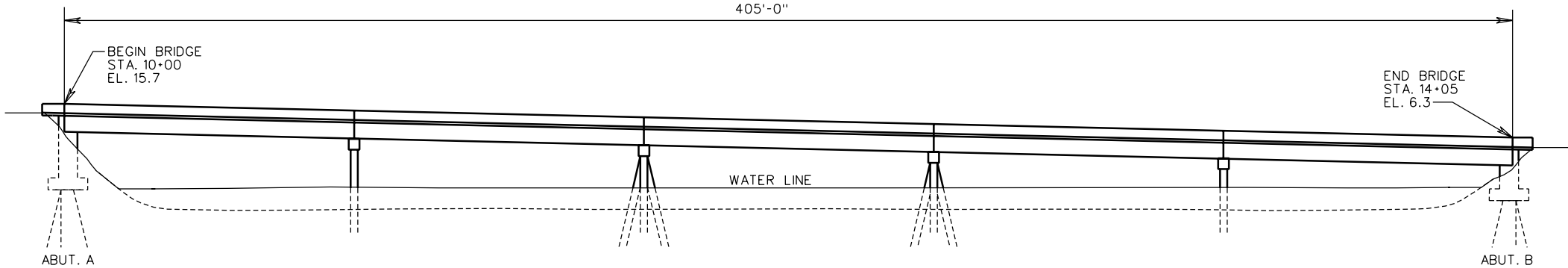
SHT 6 OF 10



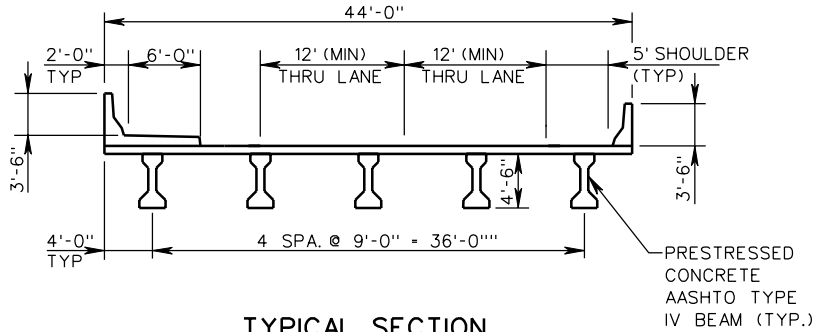
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	7	10



**PLAN**  
SCALE: 1"=40'




**ELEVATION**  
SCALE: 1"=40'



**TYPICAL SECTION**  
SCALE: 1/16" = 1'-0"

LEGEND:

 PROPOSED PAVEMENT



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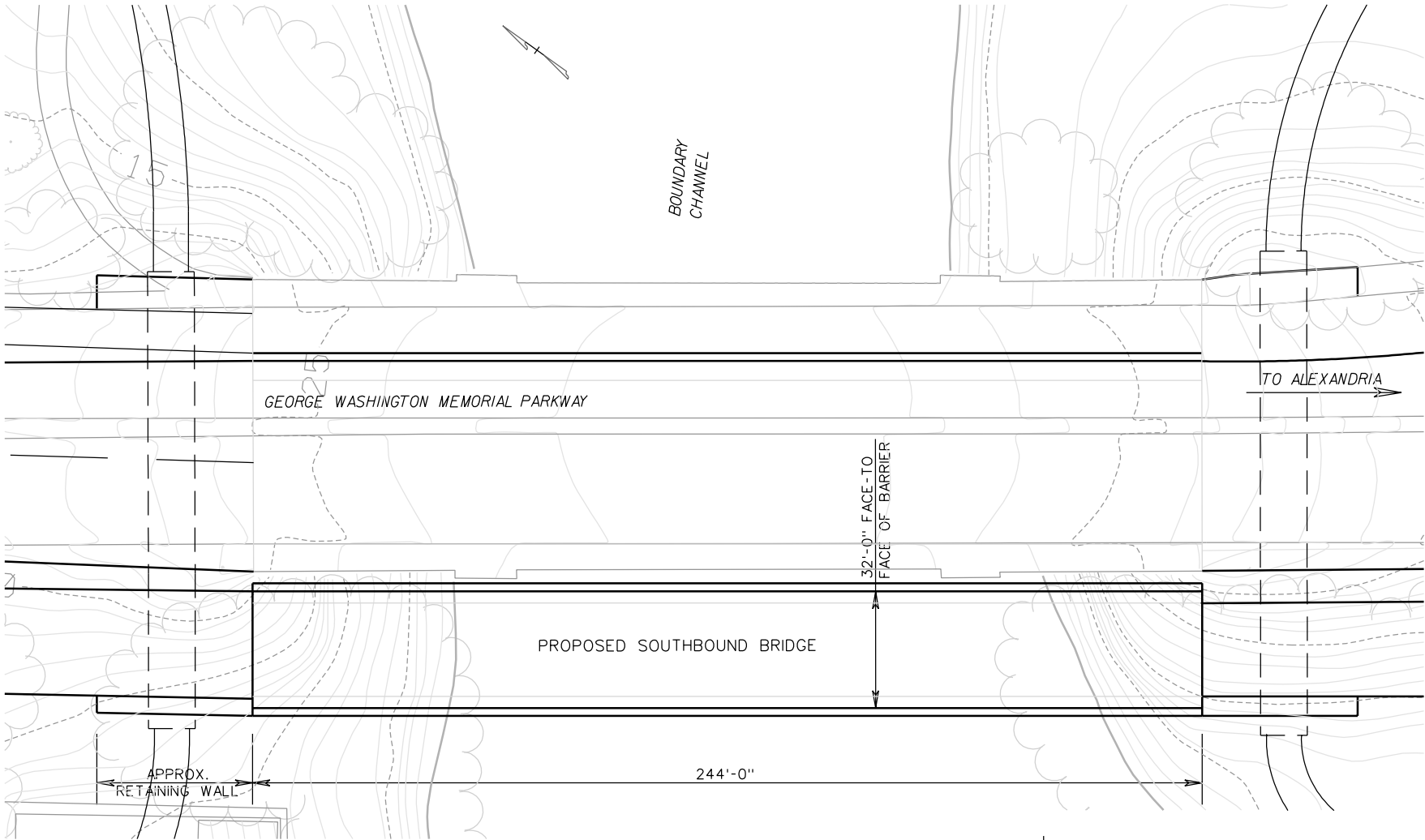
**PLAN & ELEVATION 1 -**  
**MARINA PREFERRED ALTERNATIVE**  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

DATE: MARCH 2002

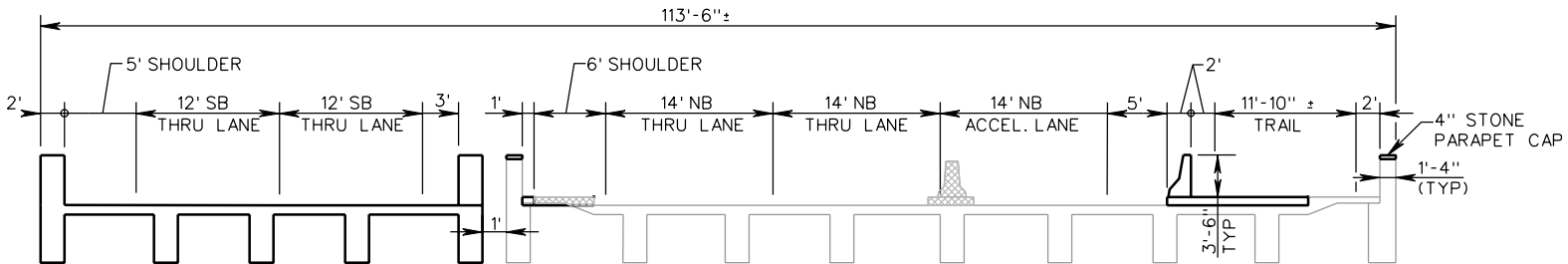
SHT 7 OF 10



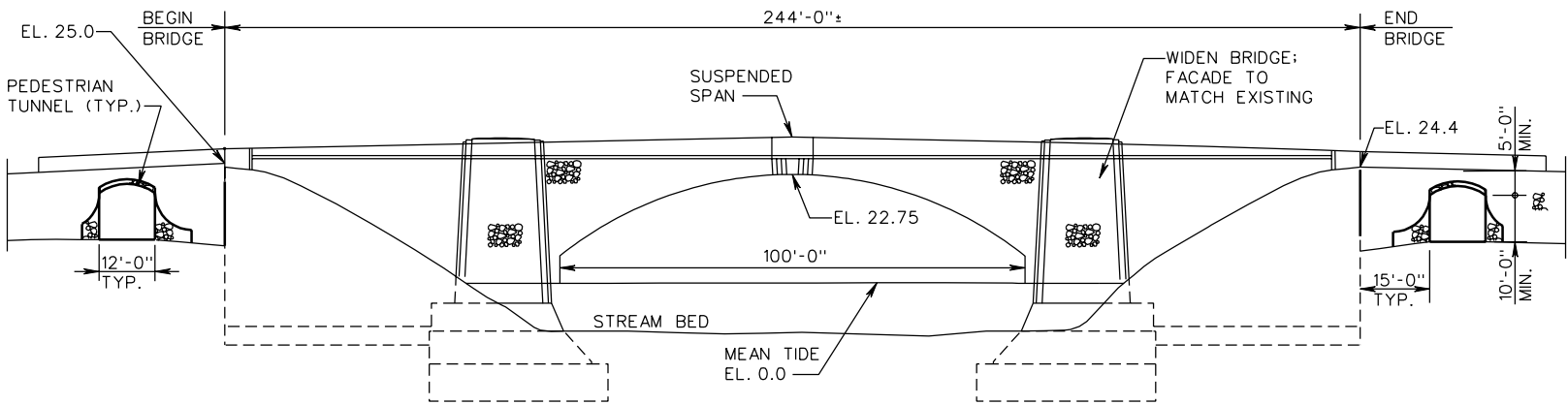
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	9	10



**PLAN**  
ALTERNATIVE B  
SCALE: 1"=40'

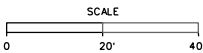


**TYPICAL SECTION**  
ALTERNATIVE B  
SCALE: 1/16" = 1'-0"



**ELEVATION**  
ALTERNATIVE B  
SCALE: 1"=40'

**LEGEND:**  
[Hatched Box] EXISTING STRUCTURE TO BE DEMOLISHED



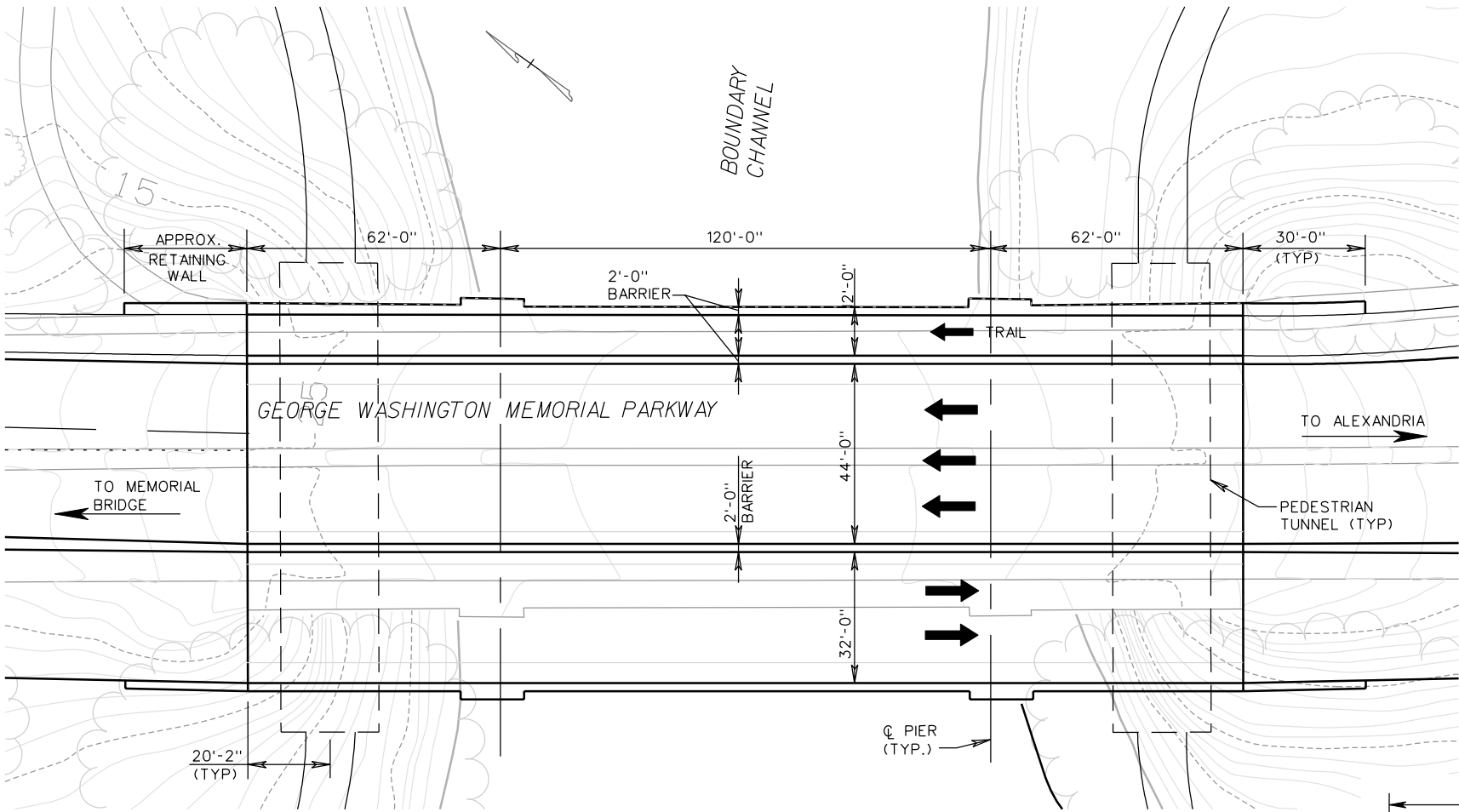
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**PLAN & ELEVATION 3 -  
BRIDGE ALTERNATIVE B**  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA

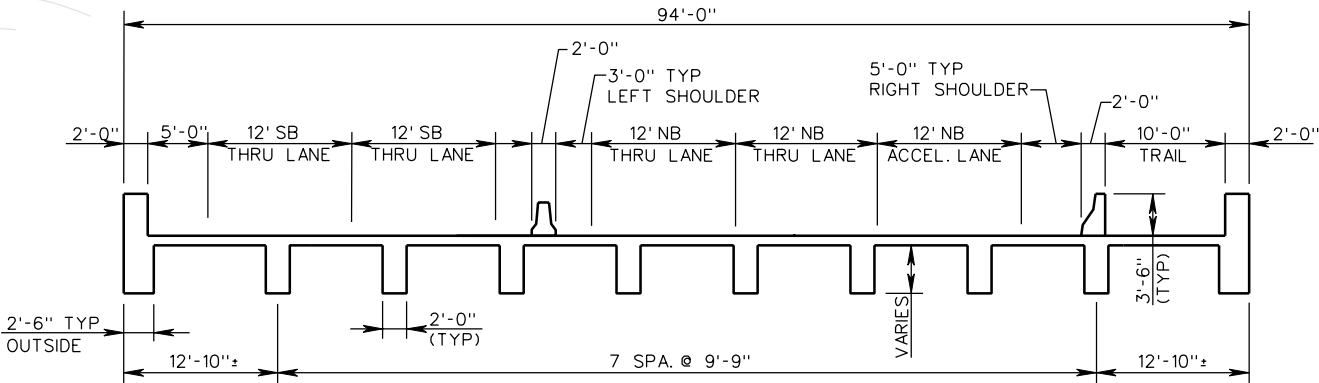
DATE: MARCH 2002

SHT 9 OF 10

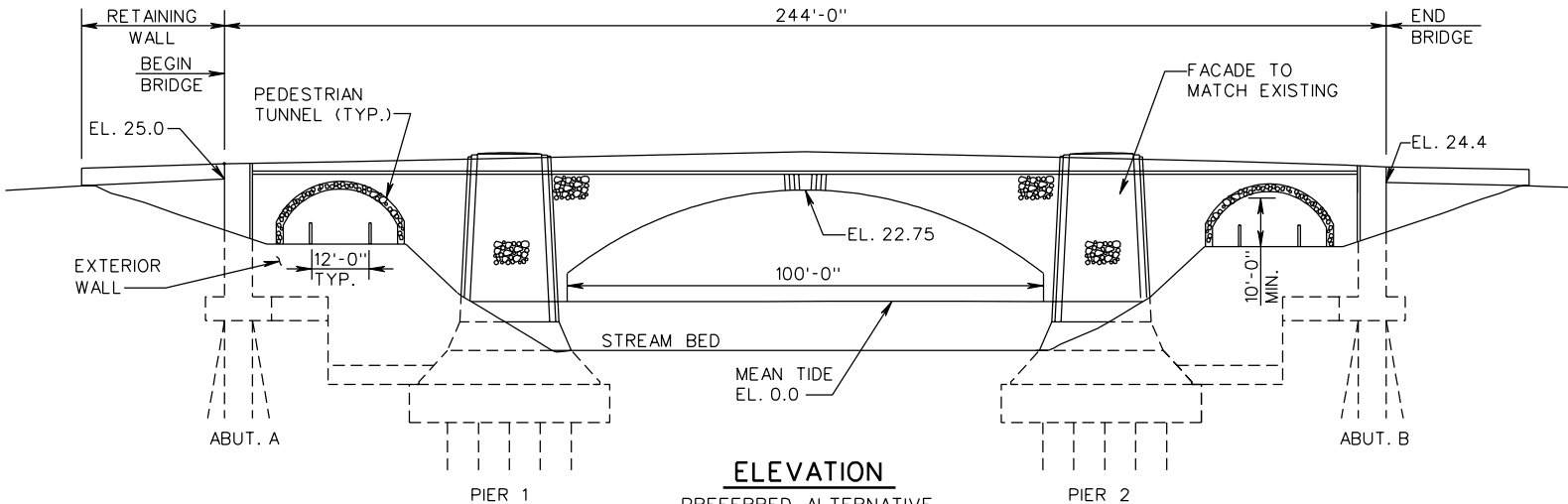
REG	STATE	PROJECT	SHEET NO.	TOTAL SHEETS
NC	DC/VA	GWMP EA	10	10



PLAN  
PREFERRED ALTERNATIVE  
SCALE: 1"=40'



TYPICAL SECTION  
PREFERRED ALTERNATIVE  
SCALE: 1/16" = 1'-0"



ELEVATION  
PREFERRED ALTERNATIVE  
SCALE: 1"=40'



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PLAN & ELEVATION 4 -  
BRIDGE PREFERRED ALTERNATIVE  
GEORGE WASHINGTON MEMORIAL PARKWAY  
SAFETY IMPROVEMENTS EA